

PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.
28.2003-001

APPLICATION NO.
09/94,998

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

APPLICANT
Sukant Tripathy, et al.

SEP 20 2002

FILING DATE
11/27/01

GROUP
161 TECH CENTER 1600/2900

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
AA		5,253,100	Oct. 12, 1993	Yang et al.	359	266	
AB		5,370,825	Dec. 6, 1994	Angelopoulos et al.	252	500	
AC		5,420,237	May 30, 1995	Zemel et al.	528	422	
AD		5,489,400	Feb. 6, 1996	Liu et al.	252	500	
AE		6,018,018	Jan. 25, 2000	Samuelson et al.	528	422	
AF		6,150,491	Nov. 21, 2000	Akkara	528	86	
AG		5,994,498	Nov. 30, 1999	Tripathy et al	528	422	

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AR	Tzou, K. and Gregory, R.V., "A method to prepare soluble polyaniline salt solutions - in situ doping of PANI base with organic dopants in polar solvents," <i>Synthetic Metals</i> , 53:365-377 (1993).
AS	Nguyen, M.T., et al., "Synthesis and properties of novel water-soluble conducting polyaniline copolymers," <i>Macromolecules</i> , 27:3625-3631 (1994).
AT	Shannon, K. and Fernandez, J.E., "Preparation and properties of water-soluble, poly(styrenesulfonic acid)-doped polyaniline," <i>J. Chem. Soc., Chem. Comm.</i> , 643-644 (1994).
AU	Tanaka, K., et al., "Doping effect of C ₆₀ on soluble polyaniline," <i>Synthetic Metals</i> , 66:193-196 (1994).
AV	Ferreira, M., et al., "Molecular self-assembly of conjugated polyions: a new process for fabricating multilayer thin film heterostructures," <i>Thin Solid Films</i> , 244:806-809 (1994).
AW	Ng, S.C., et al., "Poly(o-aminobenzylphosphonic acid): a novel water soluble, self-doped functionalized polyaniline," <i>J. Chem. Soc., Chem. Commun.</i> , 1327-1328 (1995).
AX	Chen, S. and Hwang, G., "Synthesis of water-soluble self-acid-doped polyaniline," <i>J. Am. Chem. Soc.</i> , 116:7939-7940 (1994).
AY	Chen, S. and Hwang, G., "Water-soluble self-acid-doped conducting polyaniline: structure and properties," <i>J. Am. Chem. Soc.</i> , 117:10055-10062 (1995).

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1614

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
AH	5,143,828	Sep 1,1992	Akkara et al	435	41	

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AZ	Chan, H.S.O., et al., "A new water-soluble, self-doping conducting polyaniline from poly(o-aminobenzylphosphonic acid) and its sodium salts: synthesis and characterization," <i>J. Am. Chem. Soc.</i> , 117:8517-8523 (1995).
AR2	Dordick, J.S., et al., "Peroxidases depolymerize lignin in organic media but not in water," <i>Proc. Natl. Acad. Sci. USA</i> , 83:6255-6257 (1986).
AS2	Dordick, J.S., et al., "Polymerization of phenols catalyzed by peroxidase in nonaqueous media," <i>Biotechnology and Bioengineering</i> , 30:31-36 (1987).
AT2	Kazandjian, R. Z., et al., "Enzymatic analyses in organic solvents," <i>Biotechnology and Bioengineering</i> , 28:417-421 (1986).
AU2	Klibanov, A.M. et al., "Enzymatic removal of toxic phenols and anilines from waste waters," <i>J. Appl. Biochem.</i> , 2:414-421 (1980).
AV2	Sakaki, J., et al., "Lipase-catalyzed asymmetric synthesis of 6-(3-chloro-2-hydroxypropyl)-1,3-dioxin-4-ones and their conversion to chiral 5,6-epoxyhexanoates," <i>Tetrahedron: Asymmetry</i> , 2:343-346 (1991).
AW2	Ikeda, R., et al., "Novel synthetic pathway to a poly (phenylene oxide). Laccase-catalyzed oxidative polymerization of syringic acid," <i>Macromolecules</i> , 29: 3053-3054 (1996).
AX2	Akkara, J.A., et al., "Synthesis and characterization of polymers produced by horseradish peroxidase in dioxane," <i>J. Polymer Sci.: Part A: Polymer Chemistry</i> , 29:1561-1574 (1991).
AY2	Klibanov, A.M. and Morris, E.D., "Horseradish peroxidase for the removal of carcinogenic aromatic amines from water," <i>Enzyme Microb. Technol.</i> , 3:119-122 (1981).

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AZ2	Ayyagari, M.S., et al., "Controlled free-radical polymerization of phenol derivatives by enzyme-catalyzed reactions in organic solvents," <i>Macromolecules</i> , 28:5192-5197 (1995).
AR3	Bruno, F.F., et al., "Enzymatic mediated synthesis of conjugated polymers at the Langmuir trough air-water interface," <i>Langmuir</i> , 11:889-892 (1995).
AS3	Lapkowski, M., "Electrochemical synthesis of linear polyaniline in aqueous solutions," <i>Synthetic Metals</i> , 35:169-182 (1990).
AT3	March, J., in <i>Advanced Organic Chemistry - Reactions, Mechanisms, and Structure</i> (NY: Magraw-Hill Company), pp.667, 668 (1977).
AU3	Shinohara, H., et al., "Enzyme microsensor for glucose with an electrochemically synthesized enzyme-polyaniline film," <i>Sensors and Actuators</i> , 13:79-86 (1988).
AV3	Alva, K.S., et al., "Biochemical synthesis of water soluble polyanilines: poly(p-aminobenzoic acid)," <i>Macromol. Rapid Comm.</i> , 17:859-863 (1996).
AW3	Liao, Y., and Levon, K., "Solubilization of polyaniline in water by interpolymer complexation," <i>Macromol. Rapid Commun.</i> , 16: 393-397 (1995).
AX3	Excerpts from "Plastics Engineering: Plastics - Saving Planet Earth," Volume LIII, Number 3 (Toronto; March, 1997).
AY3	Westerweele, E., et al., "'Inverted' Polymer Light-Emitting Diodes on Cylindrical Metal Substrates," <i>Advanced Materials</i> , 7(9):788-790 (1995).
AZ3	Ryu, K., et al., "Peroxidase-Catalyzed Polymerization of Phenols: Kinetics of p-Cresol Oxidation in Organic Media," <i>American Chemical Society Symp. Ser.</i> , 389:141-157 (1989).
AR4	Alva, K.S., et al., "Novel Immobilization Techniques in the Fabrication of Efficient Electrochemical Biosensors," <i>SPIE</i> , 2716: 152-163 (1996).

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AS4	Genies, E.M., et al., "A rechargeable battery of the type polyaniline/propylene carbonate -LiClO ₄ /Li-Al," <i>Journal of Applied Electrochemistry</i> 18:751-756 (1988)						
AT4	Samuelson, L.A., et al., "Biologically Derived Conducting and Water Soluble Polyaniline," <i>Macromolecules</i> 31:4376-4378 (1998).						
AU4	Liu, W., et al., "Enzymatically Synthesized Conducting Polyaniline," <i>J. Am. Chem. Soc.</i> 121:71-78 (1999).						
AV4	Zhang, Q.M., et al., "Enzymatic Template Synthesis of Polyphenol," <i>Materials Research Society</i> 600:255-259 (2000)						
AW4	Akkara, J.A., et al., "Hematin-Catalyzed Polymerization of Phenol Compounds," <i>Macromolecules</i> 33:2377-2382 (2000).						
AX4	Dordick, J. S., "Enzymatic catalysis in monophasic organic solvents," <i>Eynzyme Microbial Technology</i> 11: 194-211 (1989).						
AY4	Dunford, H.B., "Horseradish Peroxidase: Structure and Kinetic Properties," In <i>Peroxidases in Chemistry and Biology Vol. II</i> , J. Everse, et al., eds (FL: CRC Press, Inc.), pp 2-17 (1991).						
AZ4	Wudl, F., et al., "Poly(p-phenyleneamineimine): Synthesis and Comparison to Polyaniline" <i>J. Am. Chem. Soc.</i> 109:3677-3684 (1987).						
AR5	Stafström, S., et al., "Polaron Lattice in Highly Conducting Polyaniline: Theoretical and Optical Studies," <i>The American Physical Society</i> 59:1464-1467 (1987).						
AS5	Shacklette, L.W., et al., "EMI Shielding of Intrinsically Conductive Polymers," <i>In Search of Excellence by Society of Plastic Engineers and Plastics Engineering</i> 665-667 (1991).						
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